

Receipt date: 08/01/2008

10549660 - GAU: 2862

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
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*Complete if Known*

Application Number	10/549,660
Filing Date	May 2, 2006
First Named Inventor	Terje Eidesmo et al.
Art Unit	2862
Examiner Name	Bot L. Ledynh

Sheet 1 of 14 Attorney Docket Number 1101.151US01

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL <sup>*</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code <sup>2</sup> ( <i>if known</i> )		
		US-2,077,707	04/20/1937	Melton
		US-2,531,088	11/21/1950	Thompson
		US-2,907,389	10/06/1959	Hitzman
		US-3,052,836	09/04/1962	Postma
		US-3,332,487	07/07/1967	Jones
		US-3,398,356	08/20/1968	Still
		US-3,548,299	12/15/1970	Duroux et al.
		US-3,806,795	04/23/1974	Morey
		US-3,836,960	09/17/1974	Gehman et al.
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		US-4,047,098	09/06/1977	Duroux
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		US-4,506,225	03/19/1985	Loveless et al.
		US-4,547,733	10/15/1985	Thoraval

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EXAMINER INITIAL <sup>*</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> ( <i>if known</i> )			
		WO 81/01617	06/11/1981		
		WO 89/10463	02/11/1989		

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Sheet 2 of 14 Attorney Docket Number 1101.151-US01

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		Number-Kind Code <sup>2</sup> <i>(if known)</i>		
		US-4,583,095	04/15/1986	Peterson
		US-4,594,551	06/1986	Cox et al.
		US-4,616,184	10/07/1986	Lee et al.
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		US-4,992,995	02/12/1991	Favret

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		WO 96/06367	02/29/1996		
		WO 00/63718	10/26/2000		
		WO 00/13037	03/09/2000		
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		US-5,043,667	08/27/1991	Schofield
		US-5,044,435	09/03/1991	Sperl
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		WO 92/13172	06/08/1992		
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		EP 0512756	11/11/1991		
		FR 2479992	10/09/1981		
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		WO 00/00850	01/06/2000		
		EP 0814349	12/29/1997		

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		US-5,704,142	01/06/1998	Stump
		US-5,767,679	06/16/1998	Schroder
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		WO 89/10463	02/11/1989		
		WO 92/13172	06/08/1992		
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		US-6,049,760	04/11/2000	Scott	
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		US-6,246,240	06/2001	Vail III	
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> ( <i>if known</i> )			
		WO 02/14906	02/21/2002		
		WO 00/54075	09/14/2000	Profile Technologies, Inc.	
		WO 01/57555	08/09/2001	Den Norske Stats Oljeselskap	
		WO 03/048812	06/12/2003	University of South Hampton	
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		US-2003/0048105A1	01/15/2002	Kuo
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		US-6,717,411	04/06/2004	Ellingsrud et al.
		US-6,842,006	01/11/2005	Conti et al.
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		US-7,126,338	09/05/1995	MacGregor et al.

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		WO 90/00749	01/25/1990	Zetetic International Ltd.	
		WO 92/15900	09/17/1992	Kirsten Nielsen	
		WO 94/20864	09/15/1994	Ralph Johler	
		WO 96/33426	10/24/1996	Kurt Sorensen	
		WO 97/33184	09/12/1997	Chevron U.S.A. Inc.	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> <i>(if known)</i>			
		WO 98/28638	07/02/1998	Alexandr Zhukferovich Nizamov	
		WO 99/13966	03/25/1999	Den Norske Stats Oljeselskap A.S.	
		WO 03/034096	04/24/2003	University of SouthHampton	
		GB 2 155 182	09/18/1985	Exxon Prod. Research	
		GB 2 231 602	11/21/1990		
		GB 2 256 715	12/16/1992	Baker Hughes Inc.	
		GB 2 296 567	07/03/1996	Geco AS	
		GB 2 296 576	07/03/1996	Geco AS	
		GB 2 301 902	12/18/1996	Baker Hughes Inc.	
		GB 2 355 538	04/25/2001		
		EP 0219234	04/22/1987		
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10549660 - GAU: 2862

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
*(Use as many sheets as necessary)*

<i>Complete if Known</i>	
Application Number	10/549,660
Filing Date	May 2, 2006
First Named Inventor	Terje Eidesmo et al.
Art Unit	2862
Examiner Name	Bot L. Ledynh

Sheet 8 of 14 Attorney Docket Number 1101.151US01

**NON PATENT LITERATURE DOCUMENTS**

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		Cheesman et al. "On The Theory Of Sea-Floor Conductivity Mapping using Transient Electromagnetic Systems": Vol. 52, No. 2; February 1987; pages 204-217;	
		Ellingsrud et al., " <del>How Electromagnetic Sounding Technique Could be Coming to Hydrocarbon E &amp; P</del> ", 20 First Break (March 2002).	*
		Eidesmo et al., "Sea Bed Logging (SBL), a new method for remote and direct identification of hydrocarbon filled layers in deepwater areas", 20 First Break (March 2002).	
		Kaufman et al., "EM Field of an Electric Dipole on the Surface of a Medium Containing a Thin Resistant Layer", Frequency and Transient Soundings, publ. Elsevier, (1983).	
		Kaufman et al., 1981 Annual Meeting Abstracts: Marine EM Prospecting System, 47 Geophysics 431 (1982).	
		Garg et al., " <del>Synthetic Electric Sounding Surveys Over Known Oil Fields</del> ", 49 Geophysics 1959-67 (November 1984).	*
		Yuan et al., "The Assessment of Marine Gas Hydrates Through Electrical Remote Sounding: Hydrate Without a BSR?", 27 Geophys. Res. Letts. 204-217 (August 15, 2000).	

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				Examiner Name	Bot L. Ledynh
Sheet	9	of	14	Attorney Docket Number	1101.151US01

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		Edwards, "On the Resource evaluation of Marine Gas Hydrate Deposits Using Sea-Floor Transient Electric Dipole-Dipole Methods", 62 Geophysics 63-74 (January 1997).	**
		Chave et al., "Some Comments on Seabed Propagation of ULF/ELF Electromagnetic Fields", 25 Radio Science 825-36 (September 1990).	
		MacGregor et al., "Use of Marine Controlled-Source Electromagnetic Sounding for Sub-Basalt Exploration", 48 Geophys. Prosp. 1091-1106 (April 2000).	
		MacGregor et al., "Marine Controlled Source Electromagnetic Sounding: Development of a Regularized Inversion for 2-Dimensional Resistivity Structures", 1 LITHOS Science Report 103-109 (April 1999).	
		MacGregor et al., "The RAMESSES Experiment – III. Controlled-Source Electromagnetic Sounding of the Reykjanes Ridge", 135 Geophys. J. Int. 773-89 (July 1998).	
		Sinah et al., "Magmatic Processes at Slow Spreading Ridges: Implications of the RAMESSES Experiment at 57 deg. 45'N on the Mid-Atlantic Ridge," 135 Geophys. J. Int. 731-45 (July 1998).	
		Sinah et al., "Evidence for Accumulated Melt Beneath the Slow-Spreading Mid-Atlantic Ridge," 355 Phil. Trans. R. Soc. Lond. A 233-53 (January 1997).	
		Search Report - PCT/GB99/02823 ; Dec. 1999.	
		Greaves et al.; New Dimensions in Geophysics for Reservoir Monitoring: SPE Formation Evaluation:, Paper SPE 20170; pages 141-150; 1991	

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Art Unit	2862
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Sheet 10 of 14 Attorney Docket Number 1101.151US01

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		EM Field of an Electric Dipole On The Surface of a Medium Containing A Thin Resistant Layer; Author unknown, date unknown. /BL/	
		Great Britain Search Report 0119245.9; May 2002.	
		“Applications of 3-Dimensional Electromagnetic Induction by Sources in the Ocean”, A proposal submitted to MAST III under Area C: Marine Technology, Part 1. Oct. 1996.	
		“Applications of 3-Dimensional Electromagnetic Induction by Sources in the Ocean”, A proposal submitted to MAST III under Area C: Marine Technology, Part 2.	*
		Barton et al., “LITHOS”, Cambridge Advanced Lithological Imaging Project Phase 1: 1998-2001 Sub-basalt Imaging, August 21, 1997.	
		Chave et al., “Controlled Electromagnetic Sources for Measuring Electrical Conductivity Beneath the Oceans 1”, Forward Problem and Model Study, J. Geophysical Research, Vol. 87, No. B7, pp. 5327-5338, July 10, 1982.	
		Constable et al., "Marine Controlled-Source Electromagnetic Sounding 2, The PEGASUS Experiment", Journal of Geophysical Research. 101. B3 (1996): pp. 5519-5530.	
		Edwards, “On The Resource Evaluation of Marine Gas Hydrate Deposits Using Sea-Floor Transient Electric Dipole-Dipole Methods”; Resource Evaluation of Marine Gas Hydrate Deposits; January 1, 1997.	
		Edwards et al., “The Assessment of Marine Gas Hydrates through Electrical Remote Sounding: Hydrate without a BSR”, Geophysical Research Letters, Vol. 27, No. 16, pp. 2397-2400, Aug. 15, 2000.	

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Application Number	10/549,660
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Examiner Name	Bot L. Ledynh

Sheet 11 of 14 Attorney Docket Number 1101.151US01

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		Ellingsrud et al., "How Electromagnetic Sounding Technique Could be Coming to Hydrocarbon E & P", 20 First Break Article, March 1, 2002.	*
		Evans, "Constraints on the Large-Scale Porosity and Permeability Structure of Young Oceanic Crust from Velocity and Resistivity Data, Geophysical Journal International, Vol. 119, pp. 869-879, 1994.	
		Evans et al., "On the Electrical Nature of the Axial Melt Zone at 13 degrees North on the East Pacific Rise", Journal of Geophysical Research, Vol. 99, No. B1, pp. 577-588, Jan. 1994.	
		Evans et al., "Upper Crustal Resistivity Structure of the East-Pacific Rise Near 13 degrees North, Geophysical Research Letters, Vol. 18, No. 10, pp. 1917-1920, Oct. 1991.	
		Explorations, Scripps Institute of Oceanography, Vol. 4, No. 2, 1997.	
		Flosadottir et al., "Marine Controlled-Source Electromagnetic Sounding 1. Modeling and Experimental Design", Journal of Geophysical Research, Vol. 101, No. B3, pp. 5507 to 5517, Mar. 10, 1996.	

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Sheet 12 of 14 Attorney Docket Number 1101.151US01

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		MacGregor et al., "Electrical Resistivity Structure of the Valu Fa Ridge, Lau Basin, from Marine Controlled-Source Electromagnetic Sounding", Geophysical Journal International, 146.1, pp 217-236, July 2001.	
		MacGregor et al., "Electromagnetic Evidence for a Crustal Melt Accumulation Beneath the Slow Spreading Reykjanes Ridge", Abstract for 13.sup.th Workshop on EM Induction in the Earth. Date unknown.	
		MacGregor et al., "Marine Controlled Source Electromagnetism: Effect of Source-Receiver Geometry on the Response of 1-D models", 1996.	
		Nekut et al., "Petroleum Exploration Using Controlled Source Electromagnetic, Methods", Proceedings of the IEEE, Vol. 77(2), pp. 338-362, 1989.	
		Sinha, "Controlled Source EM Sounding: Survey Design Considerations for Hydrocarbon Applications", LITHOS Science Report, Vol. 1, pp. 95 to 101, Apr. 1999.	
		Sinha et al., "An Active Source Electromagnetic Sounding System for Marine Use", Marine Geophysical Researches, 12:59-68, 1990.	

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		Strack et al., "Integrating Long-Offset Transient Electromagnetics (LOTEM) with Seismics in an Exploration Environment", Geophysical Prospecting, Vol. 44, pp. 997-1017, 1996.	
		Unsworth, "Electromagnetic Exploration of the Oceanic Crust with Controlled-Sources", Chptr 5, Insight into Induction, PhD Thesis, University of Cambridge, 1991.	
		Unsworth et al., "Electromagnetic Induction by a Finite Electric Dipole Source Over a 2-D Earth", Geophysics, Vol. 58, pp. 198-214, 1993.	
		Yuan et al., "Electromagnetic Assessment of Offshore Methane Hydrate Deposits on the Cascadia Margin, GP22A-08", American Geophysical Union Fall Meeting, San Francisco, 1998.	
		Yuan et al., "The Assessment of Marine Gas Hydrates Through Electrical Remote Sounding; Hydrate Without A BSR?", Geophys. Res. Letts., Vol. 27, No. 16, pp 2397-2400, August 15, 2000.	
		Young et al., "Electromagnetic Active Source Near The East-Pacific Rise", Geophysical Research Letters, Vol. 8, No. 10, pp. 1043-1046, October 1981.	
		URSIN, "Review of elastic and electromagnetic wave propagation in horizontally layered media," Geophysics, Vol. 48, No. 8, pps. 1063-1081, August 1983.	
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		KAUFMAN et al., "Marine Electromagnetic Prospecting System," 1981 Annual Meeting Abstracts, 1 page.			
		GREGG et al., "Remote mapping of hydrocarbon extent using marine Active Source EM Sounding," EAGE 65 <sup>th</sup> Conference & Exhibition – Stavanger, Norway, 4 pages, June 2-5, 2003.			
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